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File: JPAB

Dec 14, 1993

PUB-NO: JP405330845A  
DOCUMENT-IDENTIFIER: JP 05330845 A  
TITLE: PRODUCTION OF OPTICAL FIBER PREFORM

PUBN-DATE: December 14, 1993

## INVENTOR-INFORMATION:

NAME

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SUMITOMO ELECTRIC IND LTD

APPL-NO: JP04142257

APPL-DATE: June 3, 1992

US-CL-CURRENT: 65/385

INT-CL (IPC): C03B 37/018; C03B 20/00; C03B 37/014; G02B 6/00

## ABSTRACT:

PURPOSE: To increase the refractive index by placing a porous glass body contg. SiO<sub>2</sub> in the atmosphere contg. O<sub>2</sub> and a metal halide, diffusing the formed oxide of a dopant in the glass body and then vitrifying the glass body.

CONSTITUTION: Gaseous O<sub>2</sub> and a metal halide such as GeCl<sub>4</sub> forming a dopant to increase the refractive index by the reaction with O<sub>2</sub> are introduced in a specified ratio into a quartz-glass reaction vessel 3 arranged in a sintering furnace 5. The vessel 3 is heated by a heat source 4, hence a porous glass body 2 held in the vessel 3 by a supporting rod 1 is heated, and the dopant is uniformly diffused in the porous glass body 2. The vessel 3 is then filled with a gaseous He atmosphere, the porous glass body is heated to a specified temp. and vitrified, and an optical fiber preform is obtained.

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L36 and 111

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*DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES;  
 OP=ADJ*

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L36 and 111

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L38

<u>L37</u>	L36 and l22	3	<u>L37</u>
<u>L36</u>	l33 or l35	579	<u>L36</u>
<u>L35</u>	((65/421  65/422 )!.CCLS. )	267	<u>L35</u>
<u>L34</u>	65/421-422	0	<u>L34</u>
<u>L33</u>	65/414	338	<u>L33</u>
<u>L32</u>	l3 and nickel	5	<u>L32</u>
<u>L31</u>	l3 and SiC	1	<u>L31</u>
<u>L30</u>	l3 and silicon carbide	1	<u>L30</u>
<u>L29</u>	l11 same silicon carbide	0	<u>L29</u>
<u>L28</u>	l11 same SiC	1	<u>L28</u>
<u>L27</u>	l11 same nickel	1	<u>L27</u>
<u>L26</u>	l14 and quartz	32	<u>L26</u>
<u>L25</u>	L24 not l23	3	<u>L25</u>
<u>L24</u>	L22 and optical fiber	8	<u>L24</u>
<u>L23</u>	L22 and l13	5	<u>L23</u>
<u>L22</u>	L21 or l20 or l18	84	<u>L22</u>
<u>L21</u>	l11 same plate	60	<u>L21</u>
<u>L20</u>	l11 same shield	9	<u>L20</u>
<u>L19</u>	L18 and l13	0	<u>L19</u>
<u>L18</u>	l11 same partition	20	<u>L18</u>
<u>L17</u>	l14 and nickel	2	<u>L17</u>
<u>L16</u>	l14 and silicon carbide	3	<u>L16</u>
<u>L15</u>	l12 same silicon carbide	0	<u>L15</u>
<u>L14</u>	L13 and l12	72	<u>L14</u>
<u>L13</u>	((65/\$)!.CCLS.)	34616	<u>L13</u>
<u>L12</u>	L11	624	<u>L12</u>
<u>L11</u>	L10 same burner	624	<u>L11</u>
<u>L10</u>	L9 same l6	3207	<u>L10</u>
<u>L9</u>	L8 or l7	1752357	<u>L9</u>
<u>L8</u>	vessel	524526	<u>L8</u>
<u>L7</u>	chamber	1319402	<u>L7</u>

<u>L6</u>	soot	20208	<u>L6</u>
<u>L5</u>	L3 and partition	4	<u>L5</u>
<u>L4</u>	L3 and shield	19	<u>L4</u>
<u>L3</u>	L2 or l1	134	<u>L3</u>
<u>L2</u>	((65/531 )!.CCLS. )	73	<u>L2</u>
<u>L1</u>	((65/532 )!.CCLS. )	65	<u>L1</u>

END OF SEARCH HISTORY